

A. EPPLER.
 INSEAM SHOE SEWING MACHINE.
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1,003,175.

Patented Sept. 12, 1911.

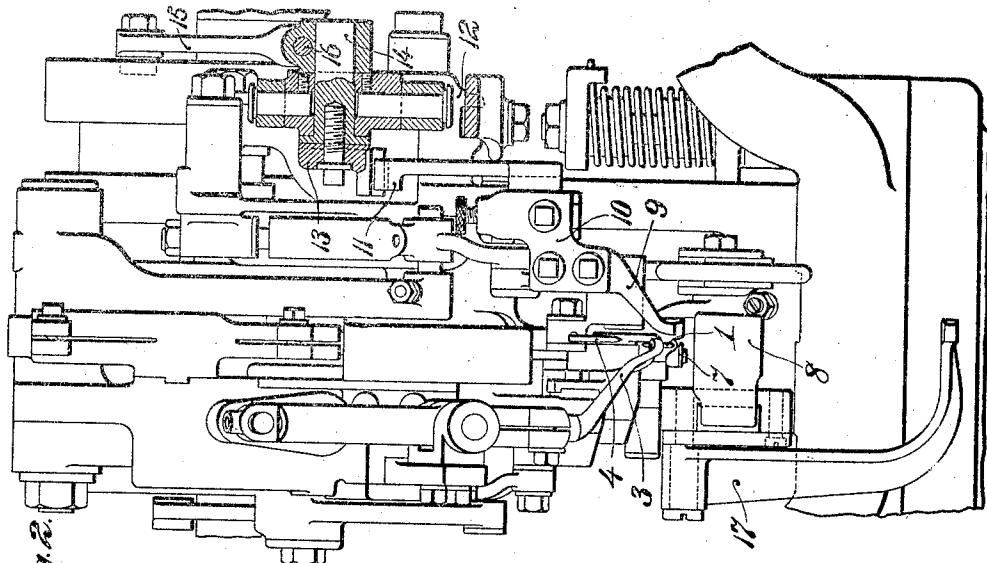


Fig. 2.

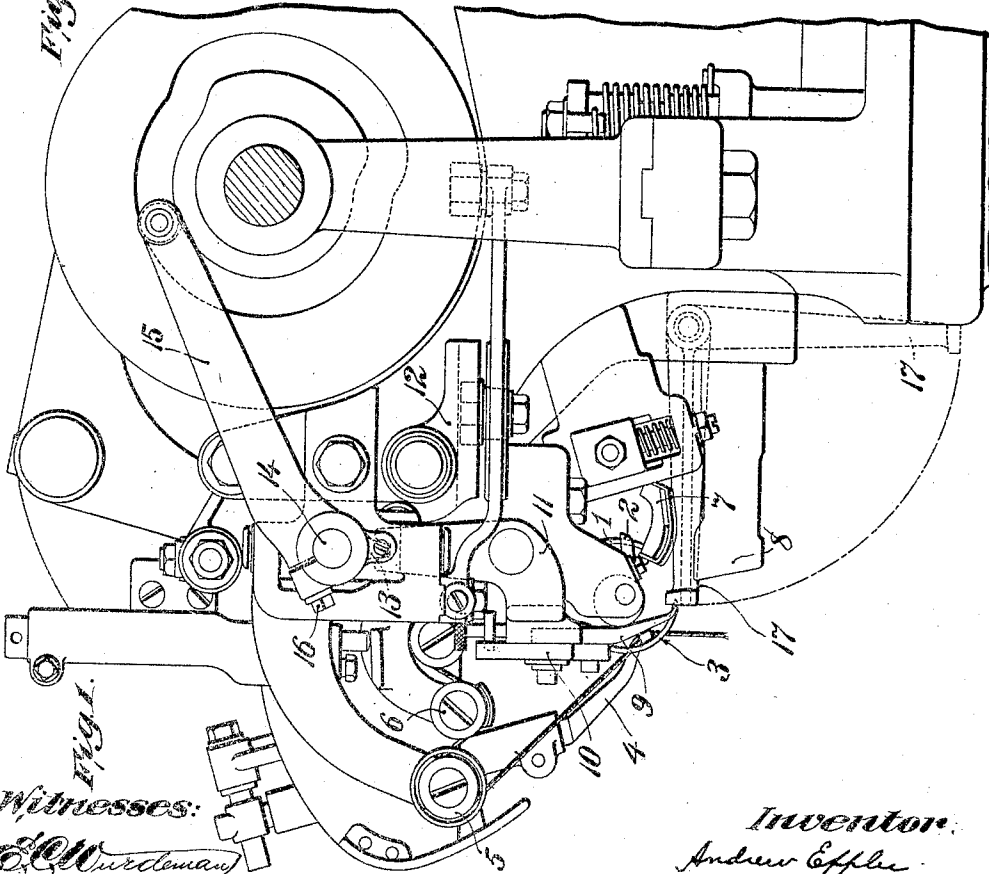


Fig. 1.

Witnesses:

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UNITED STATES PATENT OFFICE

ANDREW EPPLER, OF LYNN, MASSACHUSETTS, ASSIGNOR TO UNITED SHOE MACHINERY COMPANY, OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

INSEAM SHOE-SEWING MACHINE.

1,003,175.

Specification of Letters Patent. Patented Sept. 12, 1911.

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To all whom it may concern:

Be it known that I, ANDREW EPPLER, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Inseam Shoe-Sewing Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an inseam shoe sewing machine and particularly to a novel means for determining the correct position for the channel guide.

In the practical use of an inseam shoe sewing machine it is often desirable to change the position of the channel guide so that the particular kind of work to be operated upon may be held in the correct position in the machine with relation to the various parts of the sewing mechanism and particularly with relation to the needle. Thus in changing from one kind of work to another, it is often desirable to adjust the point or lip of the channel guide transversely of the line of feed toward or from a vertical plane passing through the axis of the needle.

The object of the present invention is to provide means whereby the transverse adjustment of the point or lip of the channel guide can be readily made by the operator, accurately and without any considerable loss of time.

With this object in view the present invention contemplates the provision in an inseam shoe sewing machine of a gage mounted in the machine so as normally not to interfere with the operation of the machine or with the manipulation of the work by the operator but movable by the operator into a position to indicate the correct position for the channel guide.

The invention contemplates the use of a gage of any suitable construction mounted in any desired manner so as to be capable of movement by the operator into a position to indicate the correct position for the channel guide.

In the best form of the invention which has as yet been devised the gage consists of an arm pivotally mounted on the frame of the machine, in such position that normally the gage is away from the point or lip of

the channel guide but can be readily swung by the operator into close proximity to the guide.

The present invention will be clearly understood from an inspection of the accompanying drawing in which—

Figure 1 is a view in side elevation of an inseam sewing machine with the preferred form of the invention applied thereto and Fig. 2 is a view in front elevation partly in section of the machine illustrated in Fig. 1.

The machine illustrated in the drawing is a curved hook needle chain stitch welt shoe sewing machine, and with the exception of the gage, hereinafter described, for determining the correct position for the channel guide, is the same in the construction, arrangement and mode of operation of its various parts as the machine disclosed in applicant's prior application, Serial No. 447,542, filed August 8, 1908.

In the machine illustrated in the drawing 1 indicates the curved hook needle, 2 the needle guide, 3 the awl, 4 the looper, 5 the take-up, 6 the auxiliary take-up, 7 the welt guide and 8 the back rest.

The channel guide of the machine is indicated at 9 and is secured to a block 10 mounted so as to be capable of vertical adjustment on the channel guide lever 11. The channel guide lever 11 is pivotally mounted upon the feed slide 12 of the machine and is provided at its upper end with a tooth which meshes with a toothed segment or arm 13. The toothed segment 13 is secured to the inner end of a short shaft 14 journaled in a bracket on the frame of the machine and to the outer end of the shaft 14 is secured a cam actuated arm 15. The hub of the arm 15, which engages the shaft 14, is split as indicated in Fig. 1 and the arm is secured to the shaft by means of a clamping bolt 16. By loosening this bolt the channel guide lever 11 can be moved to adjust the point or lip of the channel guide transversely of the line of feed and when the bolt is again tightened the channel guide is secured in its adjusted position.

The gage to determine the correct position for the channel guide is indicated at 17, and consists of an arm pivotally mounted at one side of the machine frame and curved at its free end so as to bring this end into the same vertical plane as the channel guide. Normally the arm 17 hangs in a vertical po-

sition as indicated by dotted lines in Fig. 1. When in this position the arm is out of the way of the operation and does not interfere with the sewing operation. When it is desired to set the channel guide for any particular class of work, the arm 17 is swung upwardly into the horizontal position indicated in Fig. 1. When in this position the surface at the outer end of the arm is directed back of the point or lip of the channel guide, and is in a position to limit the backward movement of the guide. For certain classes of work the channel guide will be so adjusted that its point or lip is in contact with the surface at the end of the arm 17; while for other classes of work the point or lip of the channel guide will be a short distance away from this surface. In any event, however, the surface at the end of the arm 17 will indicate a fixed point in close proximity to the point or lip of the channel guide and thus enable the operator to set the channel guide accurately in the desired position without any appreciable loss of time.

The preferred form of the present invention having been thus described, what is claimed is:—

1. An inseam shoe sewing machine, having, in combination, stitch forming devices, a channel guide, mechanism for moving the

guide toward and from the work having provision for adjustment to adjust the lip of the channel guide transversely to the direction of feed, and a movable gage arranged to be moved by the operator into a position to indicate the correct position for the channel guide and to be moved away from said position after the channel guide has been adjusted.

2. An inseam shoe sewing machine, having, in combination, stitch forming devices, a channel guide adjustable transversely to the direction of feed, a gage arm arranged to be swung by the operator into a position to indicate the correct position for the channel guide and a support upon which the gage arm is pivotally mounted.

3. An inseam shoe sewing machine, having, in combination, stitch forming devices, a channel guide adjustable transversely to the direction of feed, and a movable gage arranged to be moved by the operator into a position to indicate the correct position for the channel guide and to be moved away from said position after the channel guide has been adjusted.

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Witnesses:

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